

**Abstract**

The invention is based on the reaction of oligonucleotides in a cell-free system containing a plant cell extract and a test duplex DNA on a plasmid. The reaction specifically corrects or causes a mutation in a selectable marker gene to a form that  
5 can be selected in transformed MutS and RecA deficient bacteria. After transformation into MutS and RecA deficient bacteria, the gene conversion can be detected and quantified.

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